

### IN THE CLAIMS

1. (Currently Amended) A reflective light processing element, comprising:

a substrate;

a dielectric layer formed on the substrate;

a conductive trace formed on the dielectric layer, the conductive trace allowing charges trapped at the dielectric layer to escape wherein said trapped charges are present at least on the surface of the dielectric layer; and

a plurality of ribbons formed above the substrate and the conductive trace.

2. Cancel Claim 2

3. (Original) The reflective light processing element of claim 1, where said trapped charges are formed, with respect to the dielectric layer, during operation of said reflective light processing element.

4. (Currently Amended) A reflective light processing element, comprising:

a substrate;

a dielectric layer formed on the substrate;

a conductive trace formed on the dielectric layer, the conductive trace allowing charges trapped in the dielectric layer to escape; and

a plurality of ribbons formed above the substrate and the conductive trace, wherein each of said ribbons comprise a top surface that is reflective and said reflective surfaces exhibit the same degree of reflectively.

5. (Currently Amended) A high contrast grating light valve comprising a silicon substrate;

a protective dielectric layer formed on the substrate;

a first set of ribbons each with a first average width  $W_1$  and a second set of ribbons each

with a second average width  $W_b$ , wherein the ribbons of the first set alternate between the ribbons of the second set and, one of said first and second set of ribbons is configured to move relative to the other to constructively and destructively interfere with an incident light source having a wavelength  $X$ ;

wherein said substrate comprises a silicon wafer protected by a dielectric layer; and a conductive trace formed at least partly on the protective layer and in electrical contact with said substrate, allowing charges trapped on the protective layer to escape, wherein each of said first and second set of ribbons comprises a top surface which is reflective, and said reflective surfaces exhibit the same degree of reflectivity.

6. (Original) The grating light valve of Claim 2, wherein said dielectric layer comprises silicon dioxide.

7. (Original) The grating light valve of Claim 2, wherein said conductive trace is comprised of aluminum.

8. (Original) The grating light valve of Claim 2, wherein width  $W_a$  is  $\geq W_b$ .

9. (Original) The grating light valve of Claim 2, wherein the top surfaces of the ribbons in said first set and the top surfaces of the ribbons in said second set and regions of the surface between the ribbons of the first set and second set have reflective surfaces.

10. (Currently Amended) The grating light valve of Claim 5 2, wherein the reflective surfaces comprise aluminum.